

WasteCap Wisconsin collected records from the demolition contractor and waste haulers to document the weight of trash, reusable and recyclable materials removed from the project site; and created summaries from these records to report the quantity of each material recycled and reused.

Recycling Results. Table 1 shows the waste and recycling results during deconstruction. A **total of 3,905 tons** of debris was generated from this project. 218.73 tons of debris was actually landfilled from this project. The rest was recycled. Metal was recycled into new metal products. Concrete was ground for aggregate for new concrete. Wood was reused for other projects. Concrete accounts for the highest proportion of recycled materials.

The total recycling rate for the project was **94.40% by weight and 81.40% by volume.**

Table 1: Demolition Waste Reuse and Recycling Results.

Material	Trash		Recycling and Reuse	
	Weight (tons)	Volume (cubic yards)	Weight (tons)	Volume (cubic yards)
Trash	218.73	1,920.45		
Concrete			3,534.00	7,068.00
Metal			147.07	1,297.23
Wood			5.25	46.10
Total	218.73	1,920.45	3,686.32	8,405.33
Recycling Rate by Weight			94.40%	
Recycling Rate by Volume				81.40%

Estimating and Converting Data to Volume or Weights. WasteCap prefers to record the weight and volume of all materials removed from a project so as to collect the most accurate data. This is not always possible. Therefore, in order to calculate the volume or the weight of materials for which only one set of records is available, conversion figures are used. Figures for converting volumes to weights and vice versa come from the U.S. Environmental Protection Agency and are shown below in Table 2.

On the Wal-Mart Aviation Plaza demolition project, concrete recycling figures were estimated by weighing a number of sample concrete loads, averaging the weights of those loads (38,000 pounds, or 19 tons, per load), counting the number of loads that left the site (186 loads), and multiplying the average weight by the numbers of loads (total = 7,068 tons of concrete recycled).

Table 2: Conversion Figures

EPA Conversion (1)	Trash	Metal	Wood	Concrete
Average Yards Per Ton	6.67	8.27	6.25	2.00
Average Tons Per Yard	0.15	0.12	0.16	0.50

EPA Standard Volume-to-Weight Conversion Factors:
http://www.epa.gov/recycle.measure/docs/guide_b.pdf.